

*Titles of Papers read before the Society, between February 1845
and February 1846.*

1845.

- Mar. 14. Copy of a Letter from Professor Fuss, Perpetual Secretary of the Imperial Academy of Sciences at St. Petersburg to the Baron Berzelius, Perpetual Secretary of the Royal Academy of Sciences at Stockholm, on the contemplated extension of the Swedish Arc of Meridian, from its northern extremity at Pahtawara to the North Cape; with a Letter from Capt. Sir John Ross, R.N. to Dr. Lee. Communicated by Dr. Lee.
- A Letter from the Rev. S. J. Rigaud on the Character of Halley.
- A Description of the Observatory of the College of Georgetown, near Washington, in the United States of America, by James Curley, Esq. Communicated by W. Simms, Esq.
- Communications respecting the Great Comet of 1844-5, containing:—
- Estimated Positions of the Comet made at Nevis, in the West Indies. By George Webbe, Esq.
- Results of Sextant Observations of Distances of the Comet from known Stars, made at Colombo, Ceylon. By W. H. Simms, Esq.
- Remarks on the Comet, by J. J. Waterston, Esq. accompanied by a Chart, marking its course amongst the Stars. Including, also, Observations of the Comet, made at Madras by T. Taylor, Esq.
- Observations made at the Observatory of Georgetown, Demerara.
- Observations of Distances of the Great Comet of 1843 from known Stars, made at Port Essington. By Sir Everard Home, and Mr. Brown, Master of H.M.S. Alligator.
- Description of a Method of using Scales constructed for the Prediction of Occultations. By J. J. Waterston, Esq.
- Observations of Mauvais' Second Comet; accompanied by a Chart of its progress among the Stars. By J. J. Waterston, Esq.
- Observations and Elements of d'Arrest's Comet. By C. Rumker, Esq.
- Correction of the Longitude of the Observatory of Hamburg, by Observations of Moon-culminating Stars. By C. Rumker, Esq.
- Observations of d'Arrest's Comet. By R. Snow, Esq.
- April 11. On the Longitude of the Observatory at Paramatta. By C. Rumker, Esq.
- Observations of the Great Comet of 1844-5, made at the Cape of Good Hope. By T. Maclear, Esq.

- Results of Observations of De Vico's Second Comet, and of the Great Comet of 1844-5, extracted from a Letter to the Astronomer Royal, from Professor Schumacher.
- Elements of De Vico's Second Comet, by the Pupils of the Observatory at Naples. Extracted from a Letter to the Astronomer Royal.
- Observations of the Great Comet of 1844-5, made at the Observatory of Trevandrum. By J. Caldecott, Esq.
- Observations of Mauvais' Second Comet (Third Series), made at the Royal Observatory, Cape of Good Hope, under the Direction of T. Maclear, Esq.
- On the Use of a new Micrometer, and its Application to the Determination of the Parallax of *Mars* at his ensuing Opposition. By M. Boguslawski. Communicated, with a Letter to the President, from Sir J. F. W. Herschel.
- On the almost total Disappearance of the earliest Trigonometrical Canon. By A. De Morgan, Esq.
- May 9. Extract of a Letter from the President to the Secretary, containing an Observation of γ *Virginis*.
- On a new Construction of the Divided Eye-glass Double-image Micrometer. By G. B. Airy, Esq., Astronomer Royal.
- Observations of Mauvais' Second Comet. By T. Maclear, Esq. (Fourth and Fifth Series), W. Lassell, Esq., J. R. Hind, Esq., and John Glaisher, Esq.
- Observations of, and Remarks on, the Great Comet of 1844-5. By T. Maclear, Esq., W. Pole, Esq., and J. R. Hind, Esq.
- Observations of De Vico's First, or Periodical Comet. By W. Lassell, Esq., and J. R. Hind, Esq.
- Observations, Elements, &c., of De Vico's Second Comet. By W. Lassell, Esq., C. Rumker, Esq., J. Glaisher, Esq., J. R. Hind, Esq., M. Götze, and M. Funk.
- Observations of d'Arrest's Comet. By W. Lassell, Esq., C. Rumker, Esq., J. Glaisher, Esq., and Rev. J. B. Reade.
- Observation of the commencement of the Solar Eclipse of May 6, 1845, at the Observatory of the Royal Military College, Sandhurst. By Professor Narrien.
- June 13. On the Ephemerides of Jarchi, the Chaldean Months, and the derivation of Orion and his Dogs. By S. M. Drach, Esq.
- Extracts from a Letter to the President, dated Picket Berg, Cape of Good Hope, January 1, 1845, from C. Piazz Smyth, Esq.
- On the Longitude of the Honourable East India Company's Observatory at Madras. By T. G. Taylor, Esq.
- On the Brahmin Zodiac. By W. W. Boreham, Esq.

- A Communication from Professor Schumacher of Observations of d'Arrest's Comet, Mauvais' Second Comet, Colla's Comet, and De Vico's Comet, made at Berlin by Professor Encke.
- Observations of Mauvais' Second Comet (Sixth Series), and of the Great Comet of 1844-5 (Third Series), made at the Royal Observatory, Cape of Good Hope.
- Sextant Observations of the Great Comet of 1844-5, made at Sea during a Voyage from Van Dieman's Land to England. By Joseph Dayman, Esq. Communicated by Capt. Beaufort, R.N.
- Sextant Observations of the Great Comet of 1844-5, made on Board the Barque Ceylon. By E. W. Beazley, Esq. Commander R.N.
- An Observation of the second Great Comet of 1845 (Colla's). By C. Rumker, Esq.
- Observations of Colla's Comet. By R. Snow, Esq.
- Observations of the Solar Eclipse of 1845, May 5, and of the Transit of *Mercury* of 1845, May 8. By W. Lassell, Esq.
- Observations of the Transit of *Mercury*, made at Aylesbury by Thomas Dell, Esq. Communicated by Dr. Lee.
- Nov. 14. Elements of the Orbit of the Binary Star γ *Virginis*. By J. R. Hind, Esq.
- Ephemeris of the periodical Comet of Biela. By J. R. Hind, Esq.
- On a Photometer. By J. Templeton, Esq. Communicated by the President.
- Comet Communications from Professor Schumacher, including :—
- Observations of Colla's Comet, by Mr. Rumker (Hamburg); M. Schaub, &c. (Vienna); M. Wichmann (Königsberg); M. Galle (Berlin); Professor Schumacher and M. Petersen (Altona); Professor Argelander (Bonn).
 - Observations of Mauvais' Second Comet, by Professor Plantamour (Geneva), and M. Petersen (Altona); D'Arrest's Comet, and De Vico's First and Second Comets, by Professor Schumacher and M. Petersen; and of De Vico's First Comet, by M. Boguslawski (Breslau).
 - Elements of Colla's Comet, by M. d'Arrest (Two Sets), with a Discussion of the same, and Comparison with Observations.
- Communications respecting the Great Comet of 1844-5, including :—
- Observations made at Auckland, New Zealand. By C. W. Haile, Esq.
 - Observations made at Port Stephen, New South Wales. By Captain P. P. King, R.N.

Observations made at Wellington, New Zealand.
By R. Sheppard, Esq.

Observations made at the Madras Observatory. By
T. G. Taylor, Esq.

Communications respecting Colla's Comet, containing:—

Observations and Elements, by Professor Santini (Padua); Observations, by M. Boguslawski (Breslau); Observations, by C. Rumker, Esq. (Hamburg); and Elements, by M. Funk.

Observations of Halley's Comet in 1835, and of *Mars* at his Opposition in 1841. By C. Rumker, Esq.

Dec. 12. On a direct Method of determining the Distance of a Comet by Three Observations. By J. J. Waterston, Esq.

On the Longitude of the Observatory at Hartwell House, Buckinghamshire, from Observations of Moon-culminating Stars. By John Glaisher, Esq.

Collection of Results from East Indian Observations of the Great Comet of 1844-5. By W. Pole, Esq.

Sextant Observations of the Great Comet of 1844-5, made at Colombo, near Ceylon. By W. H. Simms, Esq.

A Communication from Professor Schumacher, containing an Observation of Biela's Comet, made at Berlin by Professor Encke.

An Extract of a Letter from Professor Challis to the President, containing two observed Places of Biela's Comet.

On the Comet of 1585, discovered by Rothmann. By J. R. Hind, Esq.

On the Orbits of several double Stars. By J. R. Hind, Esq.

On the Satellites of *Saturn*, in a Letter to the President from Sir John Herschel.

On a new Double-image Micrometer. By Professor Powell.

1846.

Jan. 9. Announcement of the discovery of the new Planet *Astræa*; with Observations, Elements, &c.

Tycho's Observations of the Comet of 1596, copied from the original Manuscripts of the Observatory of Uraniburg. By Professor Schumacher.

Elements of the Orbit of the Great Comet of 1844-5. By J. R. Hind, Esq.

Sextant Observations of the Distance of the Great Comet of 1844-5 from bright Stars, made at Sea on board the Brig *Anonyma*. By Captain C. R. D. Bethune, R.N.

On the Periods of the Satellites of *Saturn*. By S. M. Drach, Esq.

On the Reduction of the Sextant Observations of Distance of the Great Comet of 1843 from bright Stars. By the Rev. R. Main, one of the Secretaries of the Society.
 Extract of a Letter from C. P. Smyth, Esq. to the President, December 1845, accompanying some Drawings of the Great Comet of 1843.

List of Public Institutions and of Persons who have contributed to the Society's Library, &c. since the last Anniversary.

Her Majesty's Government.
 Royal Society of London.
 L'Académie Royale des Sciences de l'Institut de France.
 Royal Geographical Society.
 Royal Agricultural Society.
 Geological Society.
 Society of Arts.
 Royal Academy of Munich.
 Royal Academy of Berlin.
 American Philosophical Society.
 United Service Institution.
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 La Société de Physique, &c. de Genève.
 Royal Irish Academy.
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 Royal Society of Edinburgh.
 L'Administration Impériale des Mines de Russie.
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